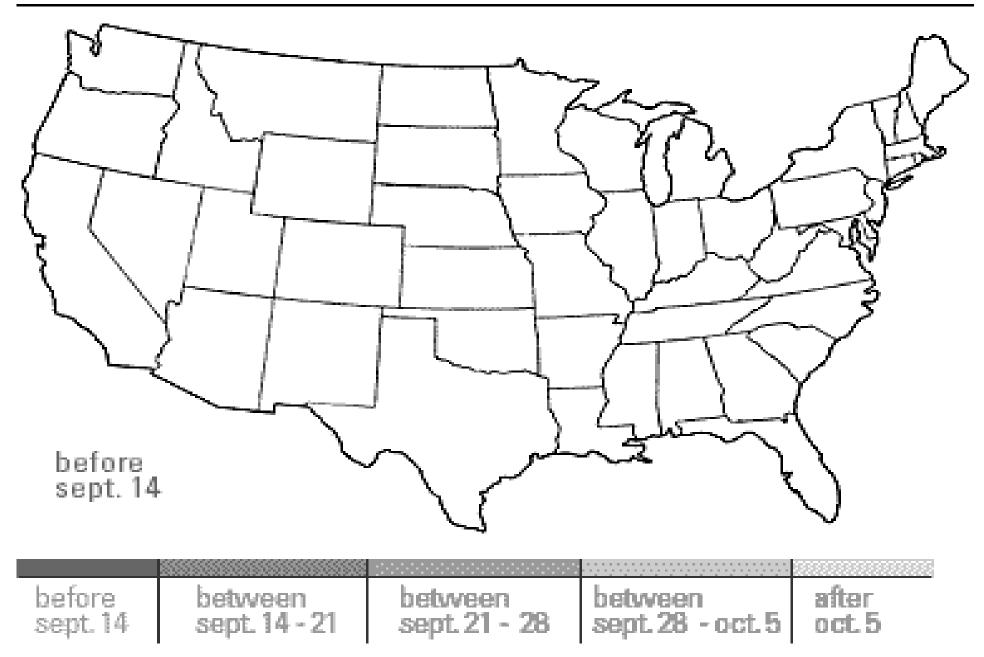


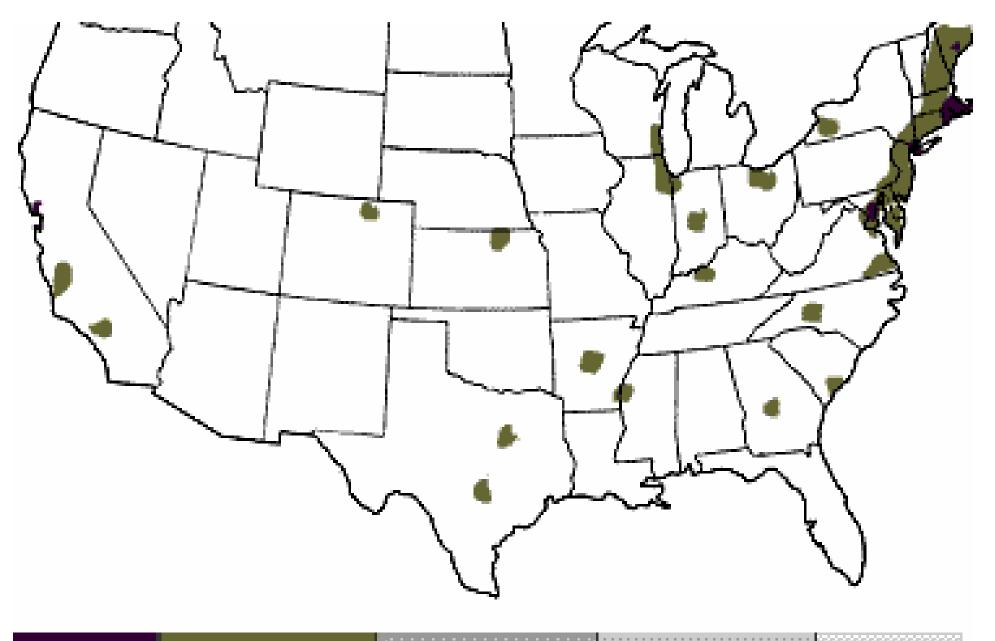
Chance Favors the Prepared Community: Preparing for a Flu Pandemic

August 3, 2007 Mark J. Levine, MD MPH

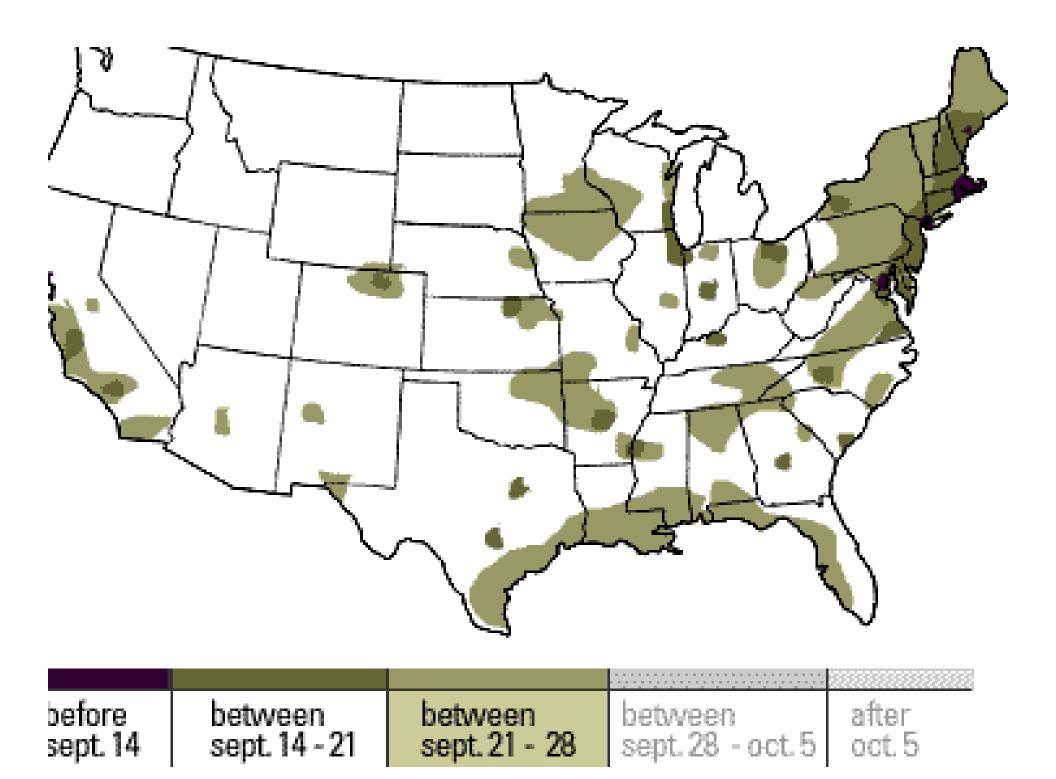
Approximate beginning of the epidemic, 1918

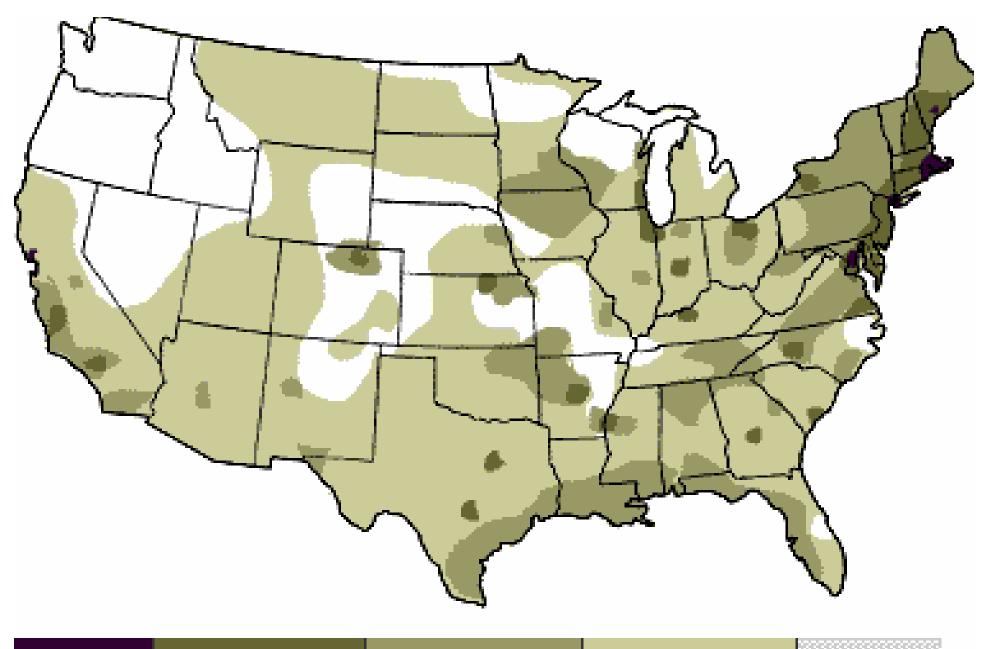


Source: America's Forgotten Pandemic - The Influenza of 1918 - 1989

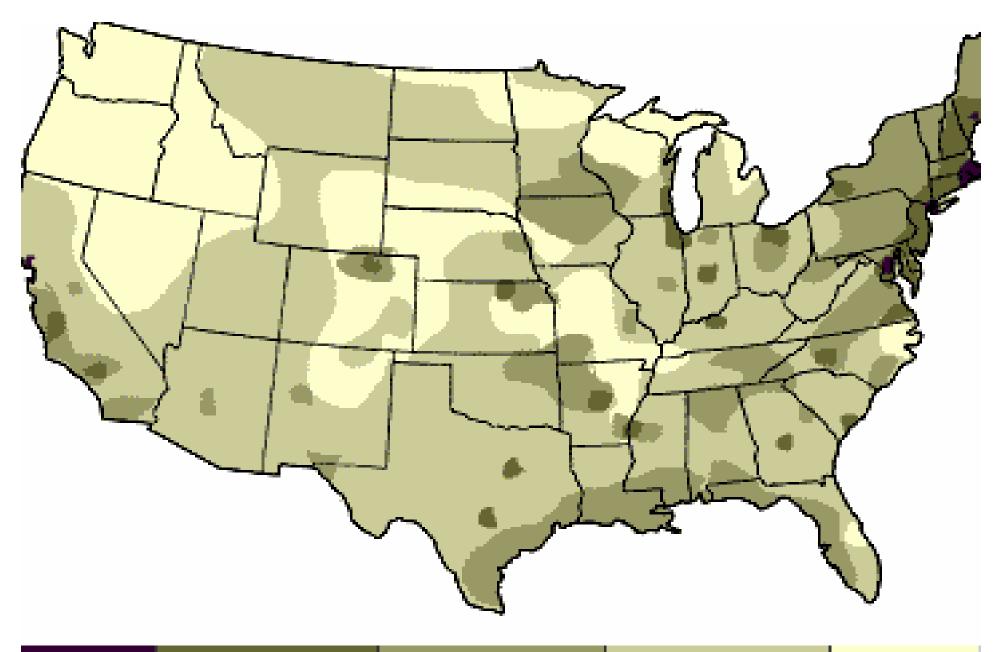


before	between	between	between	after
sept. 14	sept. 14 - 21	sept. 21 - 28	sept. 28 - oct. 5	oct. 5



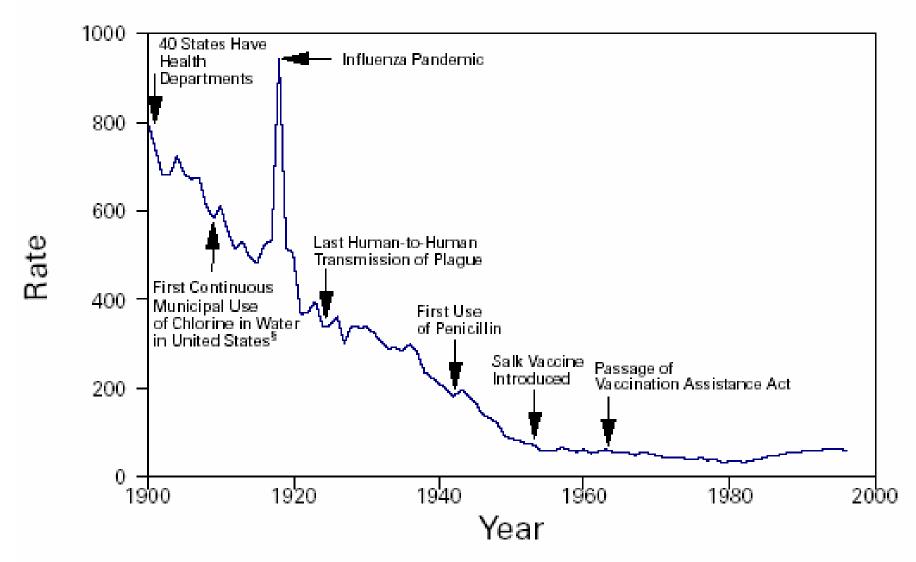


before	between	between	between	after
sept. 14	sept. 14 - 21	sept. 21 - 28	sept. 28 - oct. 5	oct. 5



before	between	between	between	after
sept. 14	sept. 14 - 21	sept. 21 - 28	sept. 28 - oct. 5	oct. 5

FIGURE 1. Crude death rate* for infectious diseases — United States, 1900–1996†

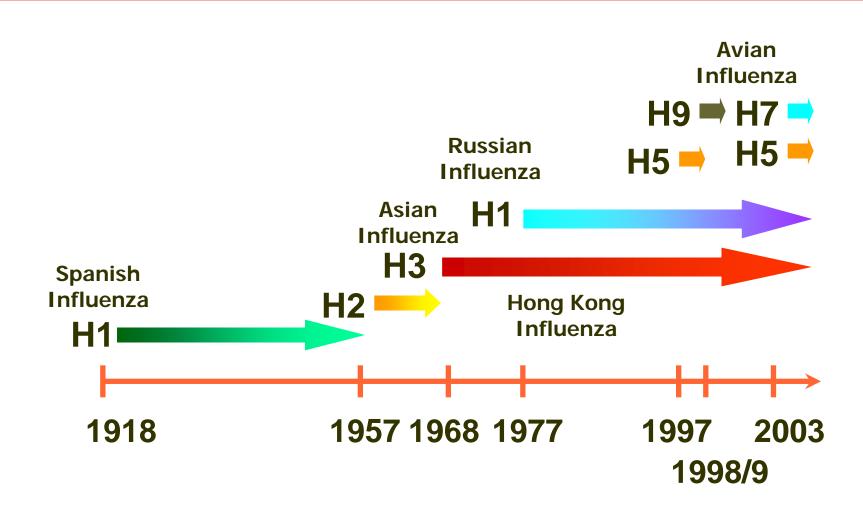


^{*}Per 100,000 population per year.

[†]Adapted from Armstrong GL, Conn LA, Pinner RW. Trends in infectious disease mortality in the United States during the 20th century. JAMA 1999:281;61-6.

[§]American Water Works Association. Water chlorination principles and practices: AWWA manual M20. Denver, Colorado: American Water Works Association, 1973.

Timeline of Emergence of Influenza A Viruses in Humans



In a Pandemic...

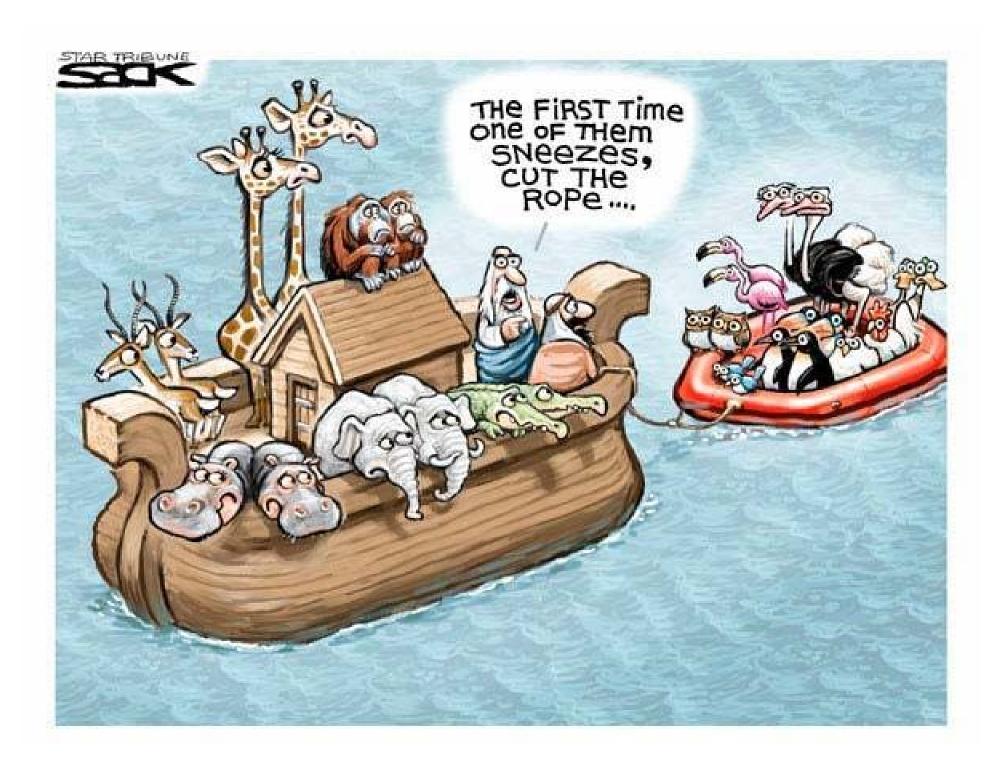
- Despite all preparedness efforts,
 <u>Virginia will not be spared</u> from a flu pandemic.
- All businesses, hospitals and government agencies will feel the effects of a pandemic.
- Ten to 25 percent of the workforce may be ill <u>at any one</u> <u>time</u>.

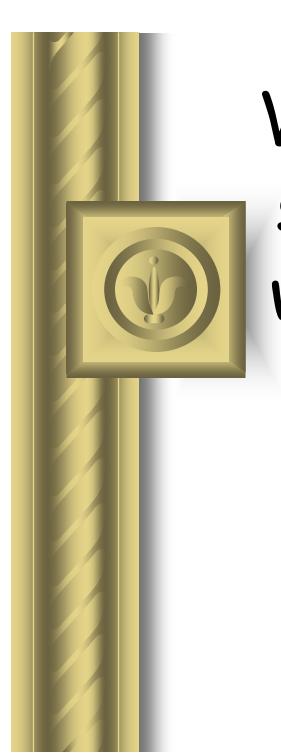


Hope?

Hope is not a strategy...

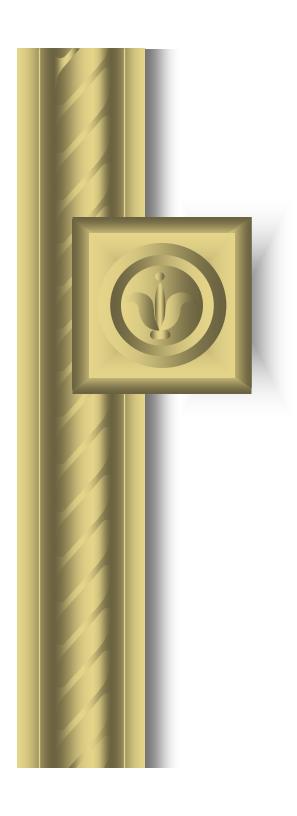
Julie Gerberding, Director, Centers for Disease Control and Prevention





We shall require a substantially new way of thinking if mankind is to survive

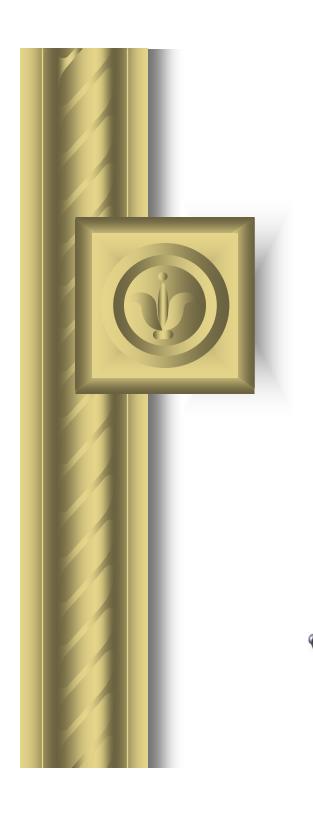
Sign on the wall of Albert Einstein's Princeton office



Chance Favors the Prepared Mind

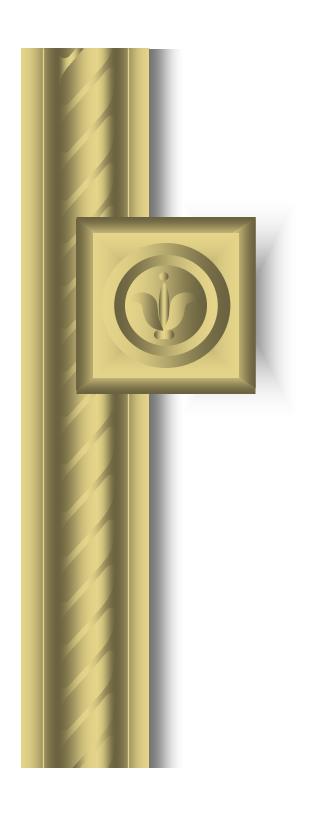
Louis Pasteur



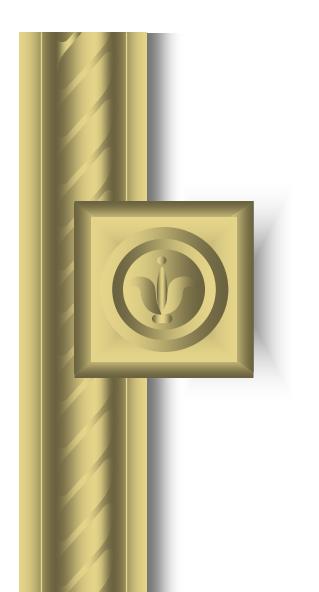


"The pandemic clock is ticking, we just don't know what time it is"

E. Marcuse



How do we Prepare for Emergencies in the Face of Uncertainty?



Perhaps, preparing for uncertainty is about improving how we function within the 'certainty' of everyday life and...

being poised to "scale up"



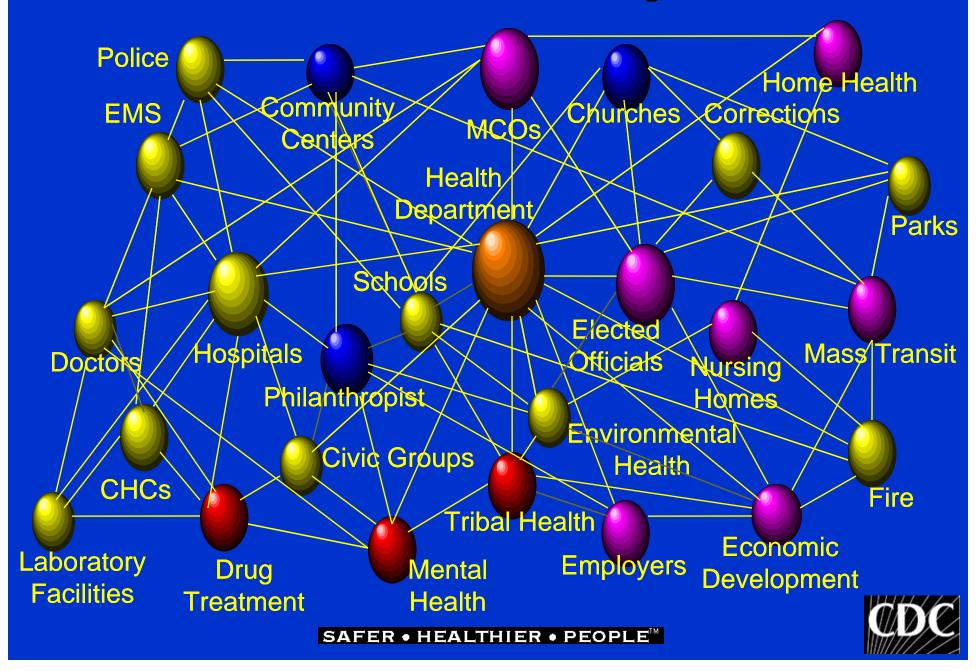
THE LESS THERE
IS TO JUSTIFY A
CUSTOM, THE
HARDER IT IS TO
GET RID OF IT!

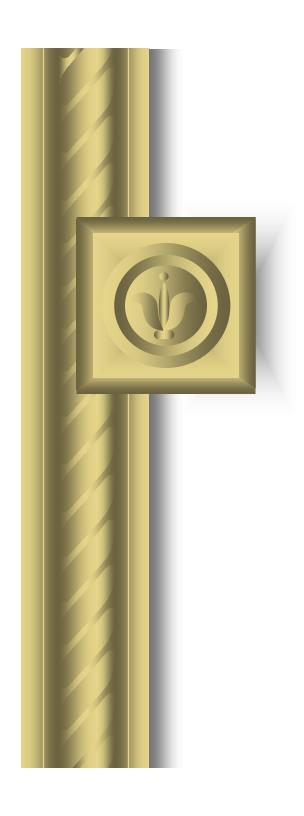
Mark Twain

Ongoing issues

- Communication/Awareness
- Surveillance/Investigation
- Containment/Control
 - Distribution of antivirals/vaccine
 - Quarantine/Social Distancing
- Healthcare Surge
 - Issues related to special medical needs

The Public Health System





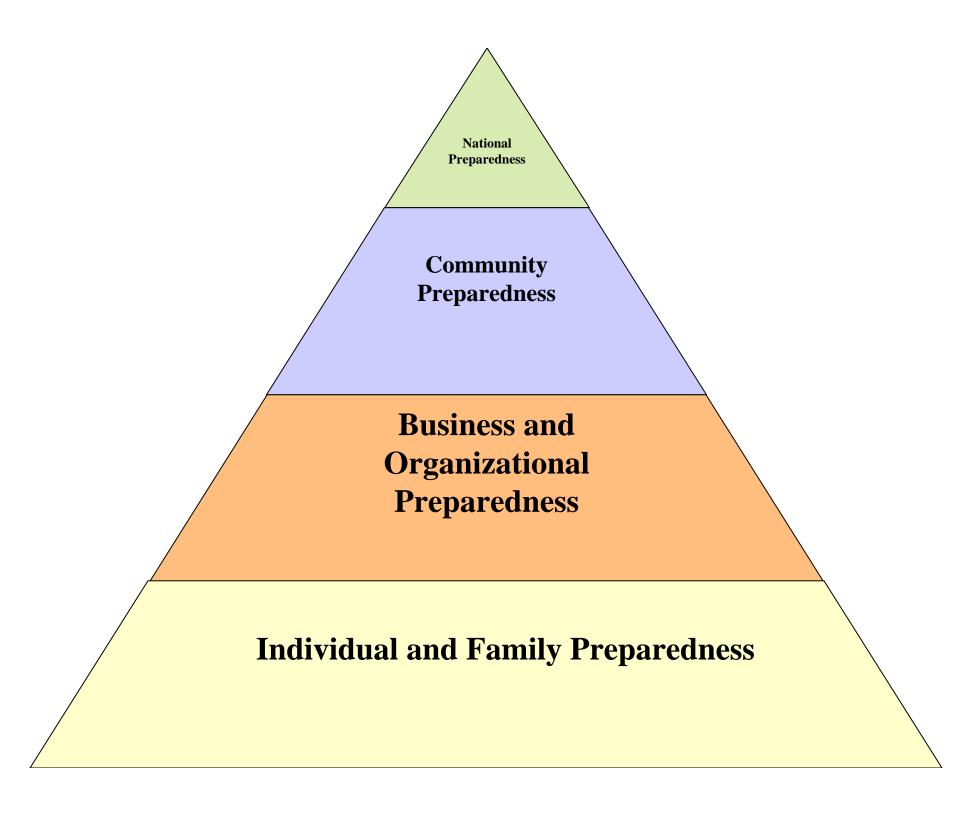
Chance Favors the Prepared Community

Mark Levine

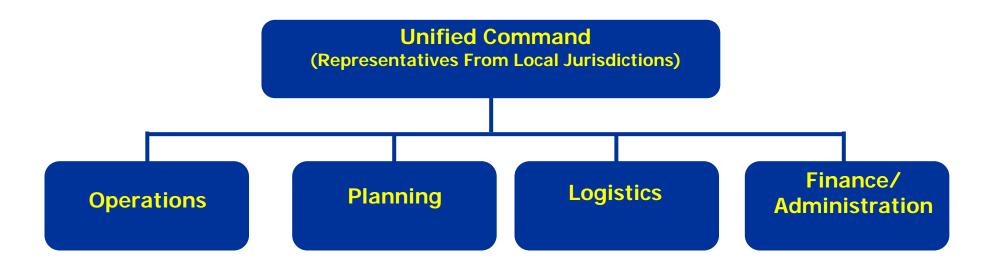
What is a "Prepared Community?"



Uncovering our Hidden Assets



Unified Command





Interim Pre-pandemic Planning Guidance: Community Strategy for Pandemic Influenza Mitigation in the United States—





























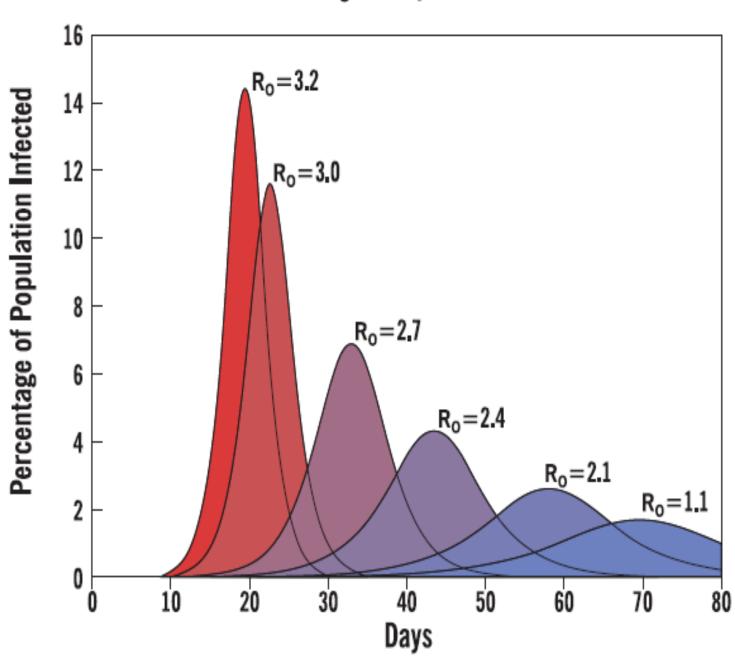


NPI

Summary of NPI

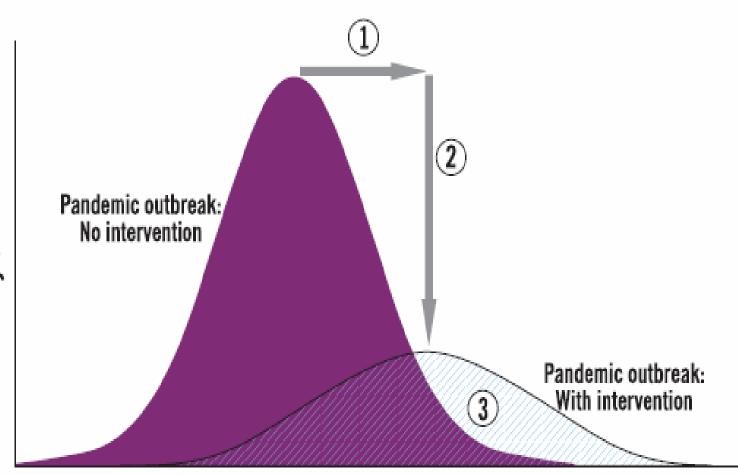
- Isolation and treatment of people infected with pandemic flu strain
- Voluntary home quarantine of members of households with pandemic flu strain
- Social distancing
 - Children: school closure and out of school social activity suspension
 - Adults: Cancellation of public gatherings; alteration of workplace environments

Effect of Ro on Epidemic Curves



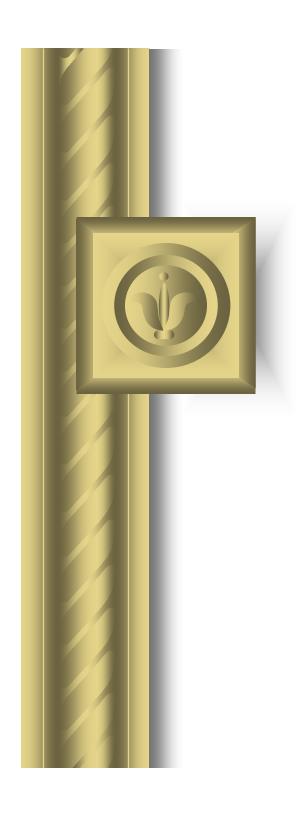
Goals of Community Mitigation

- Delay outbreak peak
- 2 Decompress peak burden on hospitals / infrastructure
- 3 Diminish overall cases and health impacts



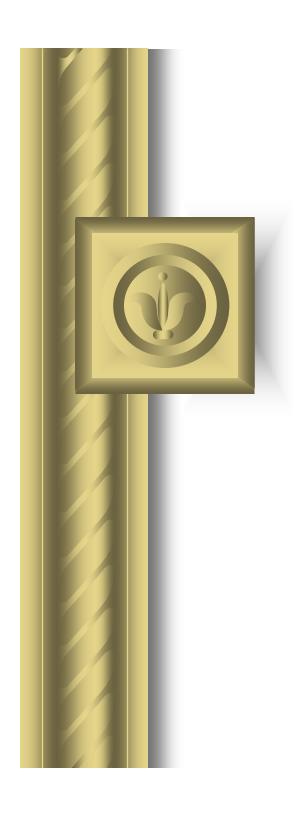
Daily Cases

Days Since First Case



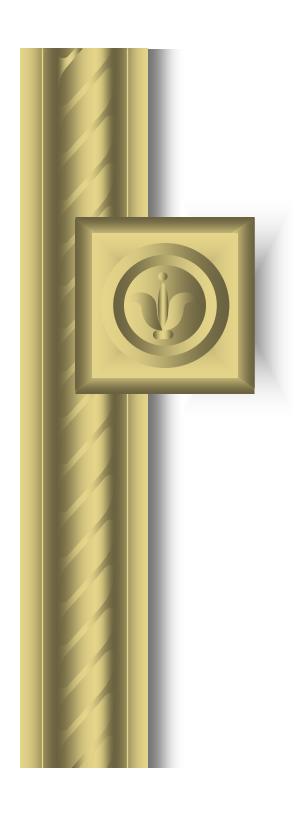
Goal of Planning for Large Scale Health Emergencies

Enhance our capacity and ability to better perform our day to day tasks and build capacity to ramp up for large scale health issues



The Challenge for Leaders...

To inspire hope

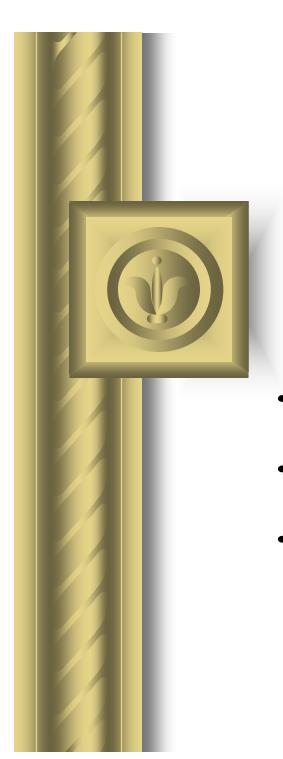


Chance Favors the Prepared Mind

Louis Pasteur

Chance Favors the Prepared Community

Mark Levine



Today: Start the process...

- -Learn/Question
- -Connect
- -Inform/Act